

DISPERBYK-182

Version 8

Revision Date 07/23/2019

Print Date 09/29/2022

SECTION 1. IDENTIFICATION

Product name : DISPERBYK-182

Manufacturer or supplier's details

Company : BYK USA Inc.
524 South Cherry Street
Wallingford CT 06492
Telephone : (203) 265-2086
Visit our web site : www.byk.com
E-mail address : BRIEF.BYK.NAFTA@altana.com
Emergency telephone : 203-265-2086; CHEMTREC 1-800-424-9300 / +1 703-527-
number 3887

Recommended use of the chemical and restrictions on use

Recommended use : Wetting & Dispersing Additive

Restrictions on use : Refer to Section 15 for any restrictions that may apply

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 3
Skin irritation : Category 2
Eye irritation : Category 2A
Specific target organ toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)
Aspiration hazard : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

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Precautionary statements

: **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Solution of modified polyurethane

Hazardous components

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| Component | CAS-No. | Concentration (%) |
|-------------------------------------|------------|-------------------|
| 1-Methoxy-2-propanol acetate | 108-65-6 | >= 25 - < 26 |
| 2-Methoxymethylethoxypropanol [DPM] | 34590-94-8 | >= 16 - < 17 |
| n-Butyl Acetate | 123-86-4 | >= 14 - < 15 |

SECTION 4. FIRST AID MEASURES

- If inhaled : Remove to fresh air. Administer artificial respiration if necessary. Get medical aid as soon as possible.
- In case of skin contact : Remove contaminated clothing. Wash thoroughly with soap and water.
- In case of eye contact : Immediately flush with plenty of water for at least 20 minutes. Get medical aid.
- If swallowed : Do not induce vomiting; aspiration hazard. Dilute with 1-2 glasses of water. Get medical aid. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : No information available.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : No information available.
- Specific hazards during firefighting : Cool closed containers exposed to fire with water spray. Will not explode on mechanical impact.
- Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)
- Further information : Keep away from heat and sources of ignition. Keep away from oxidizing agents.
- Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

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for firefighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Eliminate all sources of ignition. Ventilate area if indoors.
Wear self-contained breathing apparatus and full protective clothing.
- Environmental precautions : Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.
- Methods and materials for containment and cleaning up : Stop leak. Dike and contain spill.
Pump into salvage tanks and/or absorb with suitable material.
Use sparkless shovels to remove material.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Harmful in contact with skin.
Avoid contact with skin and eyes.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Handle as an industrial chemical.
Keep container tightly closed.
- Conditions for safe storage : Avoid exposure to excessive heat, light, and air for prolonged periods of time.
Keep in a dry, cool and well-ventilated place.
Keep product and empty container away from heat and sources of ignition.
Take measures to prevent the build up of electrostatic charge.
- Materials to avoid : Keep away from strong acids.
Keep away from strong bases.
Keep away from oxidizing agents.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|-------------------------------------|------------|----------------------------------|---|---------|
| 1-Methoxy-2-propanol acetate | 108-65-6 | TWA | 50 ppm | US WEEL |
| 2-Methoxymethylethoxypropanol [DPM] | 34590-94-8 | TWA | 100 ppm | ACGIH |
| 2-Methoxymethylethoxypropanol | | STEL | 150 ppm | ACGIH |

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|-------------------------------------|----------|------|----------------------------------|----------|
| [DPM] | | | | |
| 2-Methoxymethylethoxypropanol [DPM] | | TWA | 100 ppm 600 mg/m ³ | OSHA Z-1 |
| n-Butyl Acetate | 123-86-4 | TWA | 150 ppm | ACGIH |
| n-Butyl Acetate | | STEL | 200 ppm | ACGIH |
| n-Butyl Acetate | | TWA | 150 ppm 710 mg/m ³ | OSHA Z-1 |
| n-Butyl Acetate | | TWA | 150 ppm 710 mg/m ³ | OSHA P0 |
| n-Butyl Acetate | | STEL | 200 ppm 950 mg/m ³ | OSHA P0 |

Engineering measures : Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection : Unless air monitoring demonstrates vapor/mist/dust levels are below the PEL/TLV wear a properly fitted respirator (NIOSH approved) or dust mask during exposure.

Hand protection

Material : Impervious butyl rubber gloves

Eye protection

: Safety Glasses
Goggles

Skin and body protection

: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

: Clean long legged, long sleeved work clothes.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless, light yellow

Odour : ester-like

Odour Threshold : No data available

pH : No data available

Melting point/range : < 32 °F (< 0 °C)
Method: estimated

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|--|---|
| Initial boiling point | : 255.20 °F (124.00 °C) Method: estimated |
| Vapour pressure | : 6.0000000 hPa (68.00 °F (20.00 °C)) Method: calculated |
| Flash point | : 100.40 °F (38.00 °C) Method: 48 (Abel-Pensky) |
| Upper explosion limit | : 12.00 %(V) |
| Lower explosion limit | : 1.20 %(V) |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : No data available |
| Relative vapour density | : No data available |
| Relative Density/Specific Gravity | : No data available |
| Density | : 1.0250 g/cm ³ (68.00 °F (20.00 °C)) Method: 4 (20°C oscillating U-tube) |
| Bulk density | : Not applicable |
| Solubility(ies) | |
| Water solubility | : immiscible |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Ignition temperature | : > 392.00 °F (> 200.00 °C) Method: DIN 51794 |
| Thermal decomposition | : No data available |
| Viscosity | |
| Viscosity, dynamic | : No data available |
| Surface tension | : No data available |

SECTION 10. STABILITY AND REACTIVITY

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| | |
|------------------------------------|---|
| Reactivity | : Not classified as a reactivity hazard. |
| Chemical stability | : Stable; polymerization will not occur |
| Possibility of hazardous reactions | : 1-Methoxy-2-propanol acetate/DPM may form peroxides of unknown stability. |
| Conditions to avoid | : Prolonged heat/light/air exposure |
| Incompatible materials | : Acids Strong oxidizing agents Alkalis |
| Hazardous decomposition products | : None expected |

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Skin contact
Skin Absorption
Inhalation
Eyes
Ingestion

Acute toxicity**Components:****108-65-6 1-Methoxy-2-propanol acetate:**

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 100 ppm
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

34590-94-8 2-Methoxymethylethoxypropanol [DPM]:

Acute oral toxicity : LD50 (Rat): 5,200 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 50 mg/l

Acute dermal toxicity : LD50 (Rabbit): 9,500 mg/kg

123-86-4 n-Butyl Acetate:

Acute oral toxicity : LD50 (Rat, male): > 10,000 mg/kg
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat, male and female): > 21.1 mg/l
Exposure time: 4 h

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Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 14,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation**Components:****108-65-6 1-Methoxy-2-propanol acetate:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

34590-94-8 2-Methoxymethylethoxypropanol [DPM]:

Species: Rabbit
Result: slight irritation

123-86-4 n-Butyl Acetate:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Serious eye damage/eye irritation**Components:****108-65-6 1-Methoxy-2-propanol acetate:**

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes

34590-94-8 2-Methoxymethylethoxypropanol [DPM]:

Species: Rabbit
Result: Mild eye irritation

123-86-4 n-Butyl Acetate:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation**Components:****108-65-6 1-Methoxy-2-propanol acetate:**

Species: Guinea pig
Method: OECD Test Guideline 406

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Result: Not a skin sensitizer.
GLP: yes

34590-94-8 2-Methoxymethylethoxypropanol [DPM]:

Result: Does not cause skin sensitisation.

123-86-4 n-Butyl Acetate:

Test Type: Buehler Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Carcinogenicity**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Aspiration toxicity**Components:****34590-94-8 2-Methoxymethylethoxypropanol [DPM]:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Experience with human exposure**Product:**

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Inhalation:

Symptoms:

High concentrations of vapors may be irritating to the respiratory tract. May cause CNS depression (drowsiness, loss of coordination and fatigue); narcosis.

Skin contact:

Symptoms:

Contact will probably cause irritation.

Eye contact:

Symptoms:

Contact will probably cause irritation.

Ingestion:

Symptoms:

Ingestion may irritate the digestive tract; high dosages may cause CNS depression.

Further information**Product:**

Remarks: Skin absorption of 10-20 ml/kg of DPM has caused CNS depression (in rabbits).
ACGIH-TLV-TWA for DPM = 100 ppm (skin)

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish

:

Remarks: No data available

Persistence and degradability**Product:**

Biodegradability

:

Remarks: No data available

Bioaccumulative potential**Product:**

Bioaccumulation

:

Remarks: No data available

Mobility in soil

No data available

Other adverse effects**Product:**

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|------------------------------------|--|
| Results of PBT and vPvB assessment | : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
| Regulation | 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances |
| Remarks | This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). |
| Additional ecological information | : There is no data available for this product. |

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

| | |
|-----------------------------|---|
| EPA Hazardous Waste Code(s) | : D001: Ignitable |
| Waste from residues | : Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations. |

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

| | |
|--|--|
| UN/ID No. | : UN 3272 |
| Proper shipping name | : Esters, n.o.s. (Butyl acetates, 1-Methoxy-2-propanol acetate) |
| Class | : 3 |
| Packing group | : III |
| Labels | : Flammable liquid |
| Packing instruction (cargo aircraft) | : 366 |
| Packing instruction (passenger aircraft) | : 355 |

IMDG-Code

| | |
|----------------------|--|
| UN number | : UN 3272 |
| Proper shipping name | : ESTERS, N.O.S. (BUTYL ACETATES, 1-Methoxy-2-propanol acetate) |
| | :) |
| Class | : 3 |
| Packing group | : III |
| Labels | : 3 |

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EmS Code : F-E, S-D
Marine pollutant : no
Remarks : IMDG Code segregation group - none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**49 CFR**

UN/ID/NA number : UN 3272
Proper shipping name : Esters, n.o.s.
(Butyl acetates, 1-Methoxy-2-propanol acetate)
Class : 3
Packing group : III
Labels : Flammable liquid
ERG Code : 127
Marine pollutant : no
Container sizes: 55 gallon drums, 5 or 6-gallon pails, 2oz/16oz samples

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****US. EPA CERCLA Hazardous Substances (40 CFR 302)**

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|-----------------|----------|-----------------------|--------------------------------|
| n-Butyl Acetate | 123-86-4 | 5000 | 33602 |

SARA 304 - Emergency Release Notification

This material does not contain any components with a section 304 EHS RQ.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Non-volatile (Wt)

: 41 - 45 %
Method: 23 (20min/150°C)
DIN EN ISO 3251
Non-volatile information is not a specification.

Massachusetts Right To Know

| | |
|-------------------------------------|------------|
| 2-Methoxymethylethoxypropanol [DPM] | 34590-94-8 |
| n-Butyl Acetate | 123-86-4 |

Pennsylvania Right To Know

| | |
|-------------------------------------|------------|
| Polymer | - |
| 1-Methoxy-2-propanol acetate | 108-65-6 |
| 2-Methoxymethylethoxypropanol [DPM] | 34590-94-8 |
| n-Butyl Acetate | 123-86-4 |

New Jersey Right To Know

| | |
|-------------------------------------|------------|
| Polymer | - |
| 1-Methoxy-2-propanol acetate | 108-65-6 |
| 2-Methoxymethylethoxypropanol [DPM] | 34590-94-8 |
| n-Butyl Acetate | 123-86-4 |

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : 800963-5168

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

CONEG Heavy Metal: We confirm that we use packaging and/or packaging components in which the sum of the incidental concentration levels of lead, mercury, cadmium and hexavalent chromium do not exceed 100 parts per million by weight.

The components of this product are reported in the following inventories:

TSCA : We certify that all of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720 30(h).

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|----------------------------|--|
| Section 4 / 12(b) | : Not applicable |
| TSCA Inventory Active List | All components of this product are listed active and/or are exempt |
| DSL | : We certify that all of the components of this product are listed on the DSL. |

SECTION 16. OTHER INFORMATION

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.